

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6LDR-L10-940-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM 4792018053.03  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-11  
[TEST DATE] 11/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6LDR-L10-940-CS-DIM-UNV  
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl  
[MORE] ector and top diffuser lens  
[LAMP] LED  
[BALLAST] 0-10V LED DRIVER

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	881
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	9.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8820	8820	8820
55	966	966	966
65	107	107	107
75	39	39	39
85	33	33	33

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CANDELA TABULATION

	<u>0</u>
0.0	972.818
0.5	972.818
1.0	972.818
1.5	973.351
2.0	973.883
2.5	974.416
3.0	974.948
3.5	975.214
4.0	974.682
4.5	973.617
5.0	971.487
5.5	968.559
6.0	964.299
6.5	959.507
7.0	953.649
7.5	947.260
8.0	938.740
8.5	930.487
9.0	920.903
9.5	909.987
10.0	899.072
10.5	887.091
11.0	874.312
11.5	860.468
12.0	847.688
12.5	833.844
13.0	819.201
13.5	807.487
14.0	793.909
14.5	780.864
15.0	769.149
15.5	758.234
16.0	745.987
16.5	736.935
17.0	727.085
17.5	717.234
18.0	708.448
18.5	698.864
19.0	690.344
19.5	682.091
20.0	673.838
20.5	665.585
21.0	657.331
21.5	649.078
22.0	640.825
22.5	631.773
23.0	623.253
23.5	614.201
24.0	604.883
24.5	595.299
25.0	585.182
25.5	574.533
26.0	563.617
26.5	551.903

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**CANDELA TABULATION - (Cont.)**

27.0	539.922
27.5	527.675
28.0	514.630
28.5	501.584
29.0	488.007
29.5	474.695
30.0	460.584
30.5	446.740
31.0	432.630
31.5	418.786
32.0	404.675
32.5	390.565
33.0	376.721
33.5	363.143
34.0	349.299
34.5	335.987
35.0	324.007
35.5	311.227
36.0	298.448
36.5	285.935
37.0	273.422
37.5	261.095
38.0	249.062
38.5	237.241
39.0	225.686
39.5	214.398
40.0	203.376
40.5	192.753
41.0	182.370
41.5	172.413
42.0	162.802
42.5	153.617
43.0	144.831
43.5	136.498
44.0	128.511
44.5	121.003
45.0	113.868
45.5	107.079
46.0	100.636
46.5	94.486
47.0	88.603
47.5	82.958
48.0	77.527
48.5	72.256
49.0	67.064
49.5	61.979
50.0	56.947
50.5	51.942
51.0	46.964
51.5	41.932
52.0	36.927
52.5	31.842
53.0	26.810
53.5	21.964
54.0	17.465
54.5	13.498

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**CANDELA TABULATION - (Cont.)**

55.0	10.117
55.5	7.508
56.0	5.671
56.5	4.446
57.0	3.674
57.5	3.142
58.0	2.742
58.5	2.449
59.0	2.210
59.5	1.997
60.0	1.810
60.5	1.677
61.0	1.518
61.5	1.411
62.0	1.305
62.5	1.198
63.0	1.092
63.5	1.012
64.0	0.958
64.5	0.879
65.0	0.825
65.5	0.745
66.0	0.719
66.5	0.666
67.0	0.612
67.5	0.559
68.0	0.532
68.5	0.479
69.0	0.453
69.5	0.426
70.0	0.399
70.5	0.373
71.0	0.346
71.5	0.319
72.0	0.293
72.5	0.266
73.0	0.240
73.5	0.240
74.0	0.213
74.5	0.213
75.0	0.186
75.5	0.186
76.0	0.160
76.5	0.160
77.0	0.133
77.5	0.133
78.0	0.133
78.5	0.106
79.0	0.106
79.5	0.106
80.0	0.080
80.5	0.080
81.0	0.080
81.5	0.080
82.0	0.080
82.5	0.053

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CANDELA TABULATION - (Cont.)

83.0	0.053
83.5	0.053
84.0	0.053
84.5	0.053
85.0	0.053
85.5	0.053
86.0	0.027
86.5	0.027
87.0	0.027
87.5	0.027
88.0	0.027
88.5	0.027
89.0	0.027
89.5	0.027
90.0	0.000
90.5	0.000
91.0	0.000
91.5	0.000
92.0	0.000
92.5	0.000
93.0	0.000
93.5	0.000
94.0	0.000
94.5	0.000
95.0	0.000
95.5	0.000
96.0	0.000
96.5	0.000
97.0	0.000
97.5	0.000
98.0	0.000
98.5	0.000
99.0	0.000
99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
102.0	0.000
102.5	0.000
103.0	0.000
103.5	0.000
104.0	0.000
104.5	0.000
105.0	0.000
105.5	0.000
106.0	0.000
106.5	0.000
107.0	0.000
107.5	0.000
108.0	0.000
108.5	0.000
109.0	0.000
109.5	0.000
110.0	0.000
110.5	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000
111.5	0.000
112.0	0.000
112.5	0.000
113.0	0.000
113.5	0.000
114.0	0.000
114.5	0.000
115.0	0.000
115.5	0.000
116.0	0.000
116.5	0.000
117.0	0.000
117.5	0.000
118.0	0.000
118.5	0.000
119.0	0.000
119.5	0.000
120.0	0.000
120.5	0.000
121.0	0.000
121.5	0.000
122.0	0.000
122.5	0.000
123.0	0.000
123.5	0.000
124.0	0.000
124.5	0.000
125.0	0.000
125.5	0.000
126.0	0.000
126.5	0.000
127.0	0.000
127.5	0.000
128.0	0.000
128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
134.0	0.000
134.5	0.000
135.0	0.000
135.5	0.000
136.0	0.000
136.5	0.000
137.0	0.000
137.5	0.000
138.0	0.000
138.5	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000
139.5	0.000
140.0	0.000
140.5	0.000
141.0	0.000
141.5	0.000
142.0	0.000
142.5	0.000
143.0	0.000
143.5	0.000
144.0	0.000
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
160.5	0.000
161.0	0.000
161.5	0.000
162.0	0.000
162.5	0.000
163.0	0.000
163.5	0.000
164.0	0.000
164.5	0.000
165.0	0.000
165.5	0.000
166.0	0.000
166.5	0.000

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**CANDELA TABULATION - (Cont.)**

167.0	0.000
167.5	0.000
168.0	0.000
168.5	0.000
169.0	0.000
169.5	0.000
170.0	0.000
170.5	0.000
171.0	0.000
171.5	0.000
172.0	0.000
172.5	0.000
173.0	0.000
173.5	0.000
174.0	0.000
174.5	0.000
175.0	0.000
175.5	0.000
176.0	0.000
176.5	0.000
177.0	0.000
177.5	0.000
178.0	0.000
178.5	0.000
179.0	0.000
179.5	0.000
180.0	0.000



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	306.98	N.A.	34.80
0-30	571.74	N.A.	64.90
0-40	773.51	N.A.	87.80
0-60	880.24	N.A.	99.90
0-80	881.36	N.A.	100.00
0-90	881.41	N.A.	100.00
10-90	790.95	N.A.	89.70
20-40	466.53	N.A.	52.90
20-50	557.51	N.A.	63.30
40-70	107.62	N.A.	12.20
60-80	1.11	N.A.	0.10
70-80	0.22	N.A.	0.00
80-90	0.05	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	881.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	90.46
10-20	216.52
20-30	264.76
30-40	201.77
40-50	90.98
50-60	15.75
60-70	0.89
70-80	0.22
80-90	0.05
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

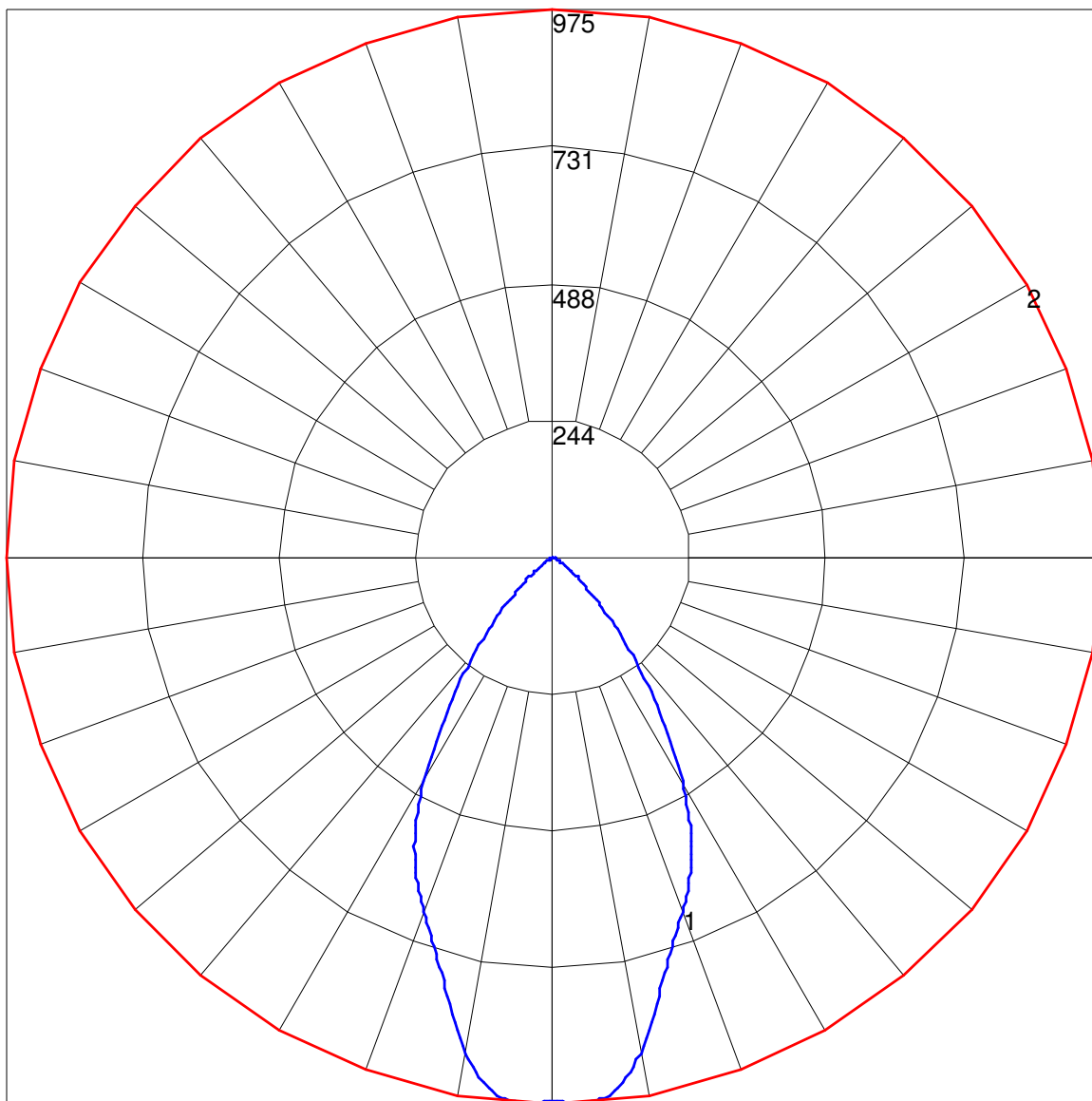
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	82	76	72	90	82	76	72	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

POLAR GRAPH



Maximum Candela = 975.214 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)